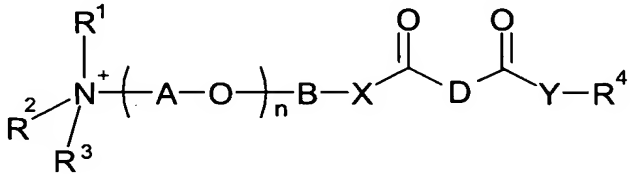
Abstract

Corrosion and gas hydrate inhibitors having improved water solubility and increased biodegradability

The invention provides the use of compounds of the formula (1)



(1)

where

R^1, R^2 are each independently C_1- to C_{22}-alkyl, C_2- to C_{22}-alkenyl, C_6- to C_{30}-aryl or C_7- to C_{30}-alkylaryl,

R^3 is C_1- to C_{22}-alkyl, C_2- to C_{22}-alkenyl, C_6- to C_{30}-aryl or C_7- to C_{30}-alkylaryl, $-CHR^5-COO^-$ or $-O^-$,

R^4 is M, hydrogen or an organic radical which optionally contains heteroatoms and has from 1 to 100 carbon atoms,

A is a C_2- to C_4-alkylene group,

B is a C_1- to C_{10}-alkylene group,

D is an organic radical which optionally contains heteroatoms and has from 1 to 600 carbon atoms,

X, Y are each independently O or NR^6,

R^5, R^6 are each independently hydrogen, C_1- to C_{22}-alkyl, C_2- to C_{22}-alkenyl, C_6- to C_{30}-aryl or C_7- to C_{30}-alkylaryl, and

M is a cation

n is a number from 1 to 30

as corrosion inhibitors and gas hydrate inhibitors, and also the compounds of formula 1.